Overview

Models

NVIDIA Tesla C1060 Compute Processor VF210AA

Introduction

The NVIDIA Tesla C1060 is a GPU computing solution that transforms a workstation into a high-performance computer that can outperform a small cluster. This gives technical professionals a dedicated computing resource that is much faster and more energy-efficient than a shared cluster in the data center. The Tesla C1060 is based on the massively parallel, 240 core Tesla processor, which is coupled with the standard CUDA C programming environment to simplify many-core programming.

Features and benefits

Massively-Parallel Many Core Architecture with 240 Processor Cores

- Solve compute problems on your workstation that traditionally required a cluster installation

Widely Accepted, Easy to Learn CUDA C Programming Environment

- Easily express application parallelism to take advantage of the GPU's many core architecture

Scale to Multiple GPU's and Harness the Performance of Thousands of Processor Cores

- Solve large-scale problems by scaling to 1000s of cores across multiple GPU's

IEEE 754 Single & Double Precision Floating Point Units

- Achieve the highest floating point performance from a single chip, while meeting the precision requirements of your application

4GB Global Memory

- Compute on larger data sets than before

Shared Data Memory

- Groups of processor cores can collaborate using low latency memory

High Speed, PCI-Express Gen 2.0 Data Transfer

- Fast and high-bandwidth communication between CPU and GPU

Compatibility

The NVIDIA Tesla C1060 Computing Processor is supported on the following HP Personal Workstation: Z800

Overview

Service and Support

The NVIDIA Tesla C1060 has a one-year limited warranty or the remainder of the warranty of the HP product in which it is installed. Technical support is available seven days a week, 24 hours a day by phone, as well as online support forums. Parts and labor are available on-site within the next business day. Telephone support is available for parts diagnosis and installation. Certain restrictions and exclusions apply.

Technical Specifications

Form Factor	10.5" x 4.376" Dual Slot
System Interface	PCIe x 16 Gen 2 recommended
Video Outputs	No Video Outputs
Memory	4GB GDDR3
Peak Memory Bandwidth	102 GB/Sec
Floating Point Formats	IEEE 754 single & double
Supported APIs	OpenCL, CUDA
Supported Operating Systems	Microsoft Windows XP (64 and 32-bit) Microsoft Windows Vista (64 and 32-bit) Linux (64 and 32-bit) • Red Hat Enterprise Linux 4 and 5 • SUSE 10.2 and 10.3
Processor Cores	240

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